CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMBINED FLAKINESS AND ELONGATION INDEX TEST ON AGGREGATES

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of the Work	Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.
Name of the Agency	Sri. Kishor kumar . M
Sample	Bituminous Concrete
Date of Testing	22/09/2017
Technical Reference	IS 2386(Part 1)- 1963 (Reaffirmed-2016)

Test	Result in %	Combined Flakiness & Elongation Index 'C-F&E' in %	Requirements as per MORTH (4th Revision) Table 500-17 for BC
Flakiness Index	10.1	**21.3**	Maximum allowed 'C-F&E' is 30 %
Elongation Index	11.2		

Remarks	**Satisfies the requirement**

AE W3

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

AE-03

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

WATER ABSORPTION TEST OF ROAD AGGREGATES .

Bituminous Concrete (BC)

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.
Name of Agency	Sri. Kishor kumar . M
Date of Testing	22/09/2017

Method of Test	Sample No.	Water Absorption in %	Average Water Absorption in %	As per MORTH Table 500-17	Remarks
IS 2386 (Part 3)	1	0.88	0.88	**2 % Maximum**	Satisfactory
	2	0.86			
	3	0.89			

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AE-CO

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

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TEST REPORT

STRIPPING TEST OF ROAD AGGREGATES

Bituminous Concrete

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.
Name of Agency	Sri. Kishor kumar . M
Date of Testing	22/09/2017

Method of Test	Observation No.	Uncovered Area/Stripping in %	Average Stripping Value in %	As Per Morth Table 500-17	Remarks
IS 6241-1971 (Reafirmed 2003))	1	3 8	3 6	5 % Maximum	Satisfactory
	2	3 4			
	3	3 5			

AE W3

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AE-02

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
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TEST REPORT

TESTS ON BITUMEN SAMPLE

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP
Name of Work	Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.
Name of the Agency	Sri. Kishor kumar . M
Date of Testing	22/09/2017

Paving Grade of Bitumen - 80-100 Grade

Sl.No.	Name of the Test	Test As Per IS Code	Result	Specification as Per IS 73 : 2006	Remarks
1	Specific Gravity @ 27° C	IS : 1202-1978	0.99	0.97 - 1.02	Pass
2	Flash Point °C	IS : 1209-1978	232	Minimum 220°C	Pass
3	Fire Point °C	IS : 1209-1978	264	Not Specified	Pass
4	Softening Point (R&B) °C	IS : 1205-1978	55	Minimum 40°C .	Pass
5	Penetration @ 25 °C 100g & 5 S, 0.1 mm	IS : 1203-1978	83	80-100	PASS
6	Ductitily @ 25°C in Cm	IS : 1208-1978	81.2	Minimum 75 cm	Pass

AE W3

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AE-03

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

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TEST REPORT

DETERMINATION OF BINDER CONTENT FROM BITUMINOUS PAVING MIXTURE FOR QUALITY CONTROL - BITUMINOUS CONCRETE MIX-GRADE 2

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.
Name of the Agency	Sri. Kishor kumar . M
Date of Testing	22/09/2017
Technical Reference	ASTM: D2172/D2172M-17 - Test Method A - Centrifuge Extraction

Specification: As Per MORTH (4th Revision) Table 500-18, Bitumen Content for BC Grade-2 is 5% to 7%

Sl. No.	Description	Values
1	Weight of bituminous mixture before extraction test, W_1 g	2000.0
2	Total Weight of mineral aggregate obtained from centrifuge extractor, W_2 g	1883.6
3	Total weight of Bitumen extracted from the mixture, W_3 g = (W_1-W_2) g	116.4
4	Bitumen content in %, (W_3/W_1) %	5.8
Remarks	**Satisfies the requirement**	

AE W_3

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AE-01

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
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TEST REPORT

GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.
Name of Agency	Sri. Kishor kumar . M
Date of Testing	22/09/2017
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011)

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
19	100	**100**	**Satisfies the requirements**
13.2	79-100	**98.1**	
9.5	70-88	**85.2**	
4.75	53-71	**62.5**	
2.36	42-58	**49.1**	
1.18	34-48	**39.8**	
0.6	26-38	**32.5**	
0.3	18-28	**22.9**	
0.15	12-20	**18.2**	
0.075	4-10	**8.1**	

AEW3

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AE-03

CIVIL TECH LABS BANGALORE

(KHUSHBOO L)
Quality Manager

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
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TEST REPORT

GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.
Name of Agency	Sri. Kishor kumar . M
Date of Testing	22/09/2017
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011)

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
19	100	**100**	**Satisfies the requirements**
13.2	79-100	**98.4**	
9.5	70-88	**86.5**	
4.75	53-71	**63.5**	
2.36	42-58	**48.9**	
1.18	34-48	**38.9**	
0.6	26-38	**31.6**	
0.3	18-28	**23.8**	
0.15	12-20	**17.6**	
0.075	4-10	**8.8**	

AE W3

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AE-07

Khushboo

(KHUSHBOO L)
Quality Manager

CIVIL TECH LABS BANGALORE